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Modeling II: 3D object reconstruction and representation using neural networks

Lim Wen Peng, Siti Mariyam Shamsuddin

June 2004 Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04

Publisher: ACM Press

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Neural networks and artificial intelligence



N. E. Sondak, V. K. Sondak

February 1989 ACM SIGCSE Bulletin, Proceedings of the twentieth SIGCSE technical symposium on Computer science education SIGCSE '89, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(483.88 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Neural networks have been called "more important than the atomic bomb" and have received a major funding commitment from DARPA. Nevertheless, it is difficult to find even a mention of neural network concepts and applications in many computer science or information systems curricula. In fact, few computer science or information systems faculty are aware of the profound implications of neurocomputing on the future of their field. This paper contends that neural networks must be a ...

3 Residual speech signal compression: an experiment in the practical application of



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Lorien Pratt, Kathleen D. Cebulka, Peter Clitherow June 1990 Proceedings of the 3rd international conference on Industrial and

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Publisher: ACM Press

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Susan P. Imberman

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Mining sales data using a neural network model of market response



Thomas S. Gruca, Bruce R. Klemz, E. Ann Furr Petersen

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Keywords: market response model, neural networks, sales/market share forecasting

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15 Continuous learning: a design methodology for fault-tolerant neural networks

Vincenzo Piuri

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Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, index terms

Fault tolerance in artificial neural networks is an important feature, in particular when the application is critical or when maintenance is difficult. This paper presents a general design methodology for designing fault-tolerant architectures, starting from the behavioral description of the nominal network and from the nominal algorithm. The behavioral level is considered to detect errors due to hardware faults, while system survival is guaranteed by the reactivation of learning mechanisms ...

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17 Poster papers: Extracting decision trees from trained neural networks

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March 2005 ACM Transactions on Asian Language Information Processing (TALIP), Volume 4 Issue 1

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Full text available: pdf(295.74 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: Hidden Markov model, TD-PSOLA

19 Software for neural networks

James A. Anderson, Edward J. Wisniewski, Susan R. Viscuso

March 1988 ACM SIGARCH Computer Architecture News, Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, index terms

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Neural networks: a new dimension in expert systems applications

Mohammed H. A. Tafti

September 1990 Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems

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Roman Rosipal, Leonard J. Trejo

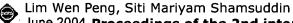
March 2002 The Journal of Machine Learning Research, Volume 2

Publisher: MIT Press

Full text available: pdf(260.73 KB) Additional Information: full citation, abstract

A family of regularized least squares regression models in a Reproducing Kernel Hilbert Space is extended by the kernel partial least squares (PLS) regression model. Similar to principal components regression (PCR), PLS is a method based on the projection of input (explanatory) variables to the latent variables (components). However, in contrast to PCR, PLS creates the components by modeling the relationship between input and output variables while maintaining most of the information in the inpu ...

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Publisher: ACM Press

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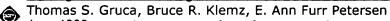
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16	Continuous learning: a design methodology for fault-tolerant neural networks Vincenzo Piuri
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2. Model reduction for nonlinear DABNet models

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American Control Conference, 1999. Proceedings of the 1999

Volume 3, 2-4 June 1999 Page(s):2052 - 2056 vol.3

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Pach, F.P.; Feil, B.; Nemeth, S.; Arva, P.; Abonyi, J.;

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http://ieeexplore.ieee.org/search/searchresult.jsp?query1=neural+network&scope1=&op1=an... 1/20/06

Volume 19, Issue 1, Jan. 1996 Page(s):19 - 26 Digital Object Identifier 10.1109/3476.484201

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7. Author Index

Industry Applications, IEEE Transactions on Volume 36, Issue 1, Jan.-Feb. 2000 Page(s):1 - 46 Digital Object Identifier 10.1109/TIA.2000.821824 AbstractPlus | Full Text: PDF(488 KB) IEEE JNL

8. Adaptive control of ram velocity for the injection moulding machine

Tan, K.K.; Huang, S.N.; Jiang, X.; Control Systems Technology, IEEE Transactions on Volume 9, Issue 4, July 2001 Page(s):663 - 671 Digital Object Identifier 10.1109/87.930978

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9. A BioMEMS review: MEMS technology for physiologically integrated devices

GRAYSON, A.C.R.; SHAWGO, R.S.; JOHNSON, A.M.; FLYNN, N.T.; YAWEN LI; CIMA, M.J.; LAN Proceedings of the IEEE

Volume 92, Issue 1, Jan 2004 Page(s):6 - 21 Digital Object Identifier 10.1109/JPROC.2003.820534

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10. System identification using dynamic neural networks and its application to plasticating extra Zhong Muliang; Zhong Hanru; Xu Jianmin;

TENCON '93. Proceedings. Computer, Communication, Control and Power Engineering. 1993 IEEE Conference on

Issue 0, Part 20000, 19-21 Oct. 1993 Page(s):862 - 865 vol.2 Digital Object Identifier 10.1109/TENCON.1993.320149

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Lightbody, G.; Irwin, G.W.; Taylor, A.; Kelly, K.; McCormick, J.; Control, 1994. Control '94. Volume 1., International Conference on 21-24 Mar 1994 Page(s):237 - 242 vol.1

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Faculty Citations: Michael J. Piovoso, Ph.D.

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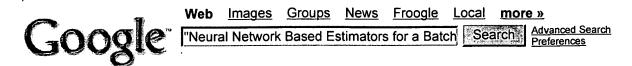
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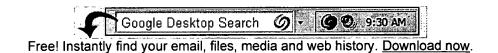
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